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Annual Report 1985-86

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Provincial Fire Commissioner
Technical Safety
Services Branch

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Labour

Annual Report of the Fire Commissioner

For the Fiscal Year ended
March 31, 1986

Published by Authority of
The Hon. Grant Schmidt
Minister of Labour

Regina, June 30, 1986

To the Honourable Grant Schmidt
Minister of Labour

Sir:

I have the honour to present herewith the annual report of the Fire Commissioner for the twelve months ending March 31, 1986.

Respectfully submitted
M.G.G. Fisher
Fire Commissioner

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Summary

In the report which follows, fire losses in Saskatchewan for the calendar year are included both in summary form and in greater detail. Other data included in this report are presented on a fiscal-year basis.

Decrease in Fire Losses

Fire losses in Saskatchewan in the year under review are significantly lower than the previous year. The property loss for 1985 was $25,747,955 as compared with $35,469,311 in 1984. There was a total of 16 fires in which the loss was $250,000 and over. The combined loss of all 16 fires totalled $8,774,734.

A total of 2,797 fires was reported in 1985. Electricity was the largest single cause of fire, accounting for 30.4 percent of the total number of fires or 850 fires. Other leading causes were: flammable liquids (15.1 percent - 423 fires), coal or wood (14.4 percent - 404 fires), and smokers' materials (10.0 percent - 279 fires).

Most Fires Occur in Homes

Fires in homes continued to be highest in number. In 1985, 32.3 percent of all fires reported were in homes (a total of 902 fires with property loss of $10,113,131).

The number of lives lost in fires in Saskatchewan decreased in 1985 from the previous year. In 1985, 21 persons lost their lives (18 men and three children) as compared with 26 persons in 1984.

During the fiscal year 1985-86, provincial fire inspectors conducted routine inspections of all public and mercantile buildings in 191 towns, villages and hamlets. Special inspections were also carried out in cities and in industrial and farm properties.

The data included in this report have been compiled from information received from provincial fire inspectors, urban and rural fire chiefs, police forces, coroners, insurance companies and adjusters, secretary-treasurers of rural municipalities and the news media.

Fire Commissioner's Unit

The Fire Commissioner's Unit enforces *The Fire Prevention Act* and regulations thereunder with respect to:

- apartment buildings;
- educational facitilites;
- hospitals;
- hotels;
- installation of automatic sprinkler systems;
- fire hose threads;
- the approval, installation and maintenance of oil burners and oil-burning equipment and appliances using flammable liquids as fuel; and
- storage and handling of flammable liquids.

The unit also inspects and carries out responsibilities with regard to regulations adopted under *The Housing and Special-care Homes Act* with respect to fire safety in special-care homes and homes for the aged.

The functions of the unit include: a programme of inspection and licensing; preparation of educational and practical programmes in fire prevention and fire protection; training of volunteer firefighters; fire and arson investigation; approval of plans and specifications; and the recording of information on fires in the province. The unit also provides consulting services on fire safety matters to other government departments, municipalities, organizations, industry, business, committees and individuals. For the purpose of fire inspection, the province is divided into nine districts, with fire prevention officers based in North Battleford, Prince Albert, Regina, Saskatoon, Swift Current and Yorkton.

The authorized staff of the Fire Commissioner's Unit on March 31, 1986 is shown below by category.

Category	Approved number of positions
All categories	**25**
Fire Commissioner	1
Deputy Fire Commissioner	1
Principal	1
Architect	1
Senior Fire Prevention Officer	1
Fire Prevention Officers	15
Clerical	5

Associations and Committees

During 1985-86, the Fire Commissioner was a member of the Association of Canadian Fire Marshalls and Fire Commissioners; the Canadian Association of Fire Chiefs; the National Fire Protection Association; the Saskatchewan Association of Fire Chiefs; the Fire Safety Councils of the Canadian Standards Association, Underwriters' Laboratories of Canada, Warnock Hersey and Canadian Gas Standards Advisory Committee; Child Safety Committee and the Mobile Home Park Committee.

Conferences

During the year 1985-86, the Fire Commissioner attended the National Fire Protection Association Convention in Chicago in May. The Deputy Fire Commissioner attended the Association of Fire Marshalls and Fire Commissioners' Annual Conference in Winnipeg in July, the Saskatchewan Association of Fire Chiefs in Yorkton in June and the Canadian Workshop on Leaking Underground Storage Tanks in Vancouver in November.

Training and Upgrading

In May of 1985, four fire prevention officers attended the Saskatchewan Fire Investigation Course in Regina sponsored by the Saskatchewan Police College and the Fire Commissioner's Unit. Four fire prevention officers attended a one-week seminar on arson investigation sponsored by the Royal Canadian Mounted Police and Saskatchewan Government Insurance. Two fire prevention officers attended an arson investigation course in Saskatoon and six fire prevention officers attended an arson investigation course in Regina, both sponsored by Saskatchewan Government Insurance. One fire prevention officer attended an Instructor's Course at the Police College in February. All Fire Commissioner's Unit staff attended a Canadian Standards Association meeting in Regina in November.

Inspection Programme

Fire prevention officers of the Fire Commissioner's Unit carried out an inspection programme in 1985-86 in various classes of buildings with the exception of dwellings, where inspections were made only as a result of a complaint or obvious hazard. Inspection of dwellings by local authorities is encouraged. Hospitals, institutions, educational buildings, and places of public assembly were inspected in the interest of fire safety. Government-owned buildings were also inspected for fire safety and evacuation procedures.

Routine inspections were conducted during the fiscal year in 191 towns, villages and hamlets.

Fire departments have authority under *The Fire Prevention Act* to inspect and enforce provincial regulations. In large urban centers with paid departments having inspection staffs, provincial attention is only given in special circumstances or appeals.

During the year, fire prevention officers made 3,268 inspections. This does not include oil burner inspections, which are mentioned elsewhere in this report. Of this number, 947 were special inspections and 401 were re-inspection follow-ups on previous orders. A total of 700 orders to remedy certain conditions within specified periods of time were issued. Inspections and improvement orders issued are shown in Table 25, according to class of property inspected.

Fire Prevention

The Fire Commissioner's Unit continued to advise municipal councils and fire departments with respect to fire protection requirements. A total of 136 fire department surveys was made during the year. Inspectors advised institutions, hospitals and hotels on fire emergency programmes, fire exit drills and other safety matters. In addition, inspectors attended 128 special meetings with fire chiefs, local authorities and other persons concerned with fire prevention.

Fire Prevention Week (October 6-12, 1985) was emphasized by means of lectures to school children, distribution of films, special fire and prevention literature.

For this year the Fire Commissioner's Unit did not sponsor the Annual Fire Prevention Poster Competition for public and high schools; the resources instead were diverted to the Fire Prevention and Safety Program and the new "Learn Not to Burn" curriculum.

Special Fire Safety Program

The special Fire Safety Program, introduced in June 1984, which undertook promotion of a number of educational and safety activities, continued through to March 31st, 1986. During it's short duration this program proved to be a very effective way of teaching safety in the event of fire in the home.

The program staff presented exhibits at parades; participated in exhibitions and fairs during the summer; and, most importantly, delivered an understandable and retainable message to school children from kindergarten to grade six. There are reports of three families being saved because parents formulated a proper plan of action as a result of their children taking the message home.

During this past year fire prevention and safety staff made presentations at two trade shows, several displays at shopping malls and fire halls, booth displays at Yorkton, Saskatoon, Estevan and Regina Exhibitions, and also at Agribition and Mexibition. Staff was also involved in five In-Service programs to introduce the "Learn Not to Burn" curriculum into the school system.

During the fiscal year, 137 presentations were made in 120 schools, thus providing 20,704 students and teachers and 2,042 parents and others in attendance with a worthwhile fire safety message.

Films

During the year under review, fire prevention and fire training films were widely distributed throughout the province. These films were used by schools, fire departments and various organizations. These films are maintained in the library of Educational Media Services, Saskatchewan Education and bookings for such films can be made through them.

Firefighters' Training

Training for volunteer firefighters was first introduced in the province (and in Canada) with six two-day courses given by the Fire Commissioner's Office in 1947. By 1949, 23 courses per year were being held and the office purchased a 3/4 ton truck with a 150 gallon-per-minute pump, 100 gallon tank and other equipment such as resuscitators and breathing apparatus. In 1952 an instructor and senior instructor were hired. Equipment was upgraded in 1963 when the truck was replaced by a new firefighting unit especially designed for training. This unit was replaced in 1967, and the 1967 unit in 1980. In 1983, staff was expanded by transfer of two positions from the Department of Northern Saskatchewan.

In 1985 the Fire Commissioner's Unit embarked on a major new training initiative with the hiring of a Principal of Training and the delivery of the first of a series of modules for a certificate course for firefighters. Three levels of training are planned based on National Fire Protection Association Standards and the work of an advisory committee. The elementary volunteer firefighter training schools offered since 1947 will be continued for a time. They will be augmented by the new program which establishes for firefighters a level of competency considered adequate for any department, paid or volunteer. Communities requesting training have their choice of programs.

Committees have also been established to determine training criteria for fire inspectors and fire investigators.

It is anticipated that planning will soon commence on training needs for industrial firefighters;

emergency personnel in institutions, highrise buildings, hotels and large commercial projects; and special courses for firefighting involving hazardous goods and materials, and familiarity with special measures for high buildings, etc. Courses on automatic fire protection and alarm requirements are also on the list.

The first of the new training modules were Self-Contained Breathing Apparatus courses. Ten were held at which 208 students received training. Fifty-four elementary training schools were held, as illustrated in Table 32 and attended by 930 persons.

The number of schools and persons registered since 1976-77 is shown in Table 33.

Tabletop demonstrations and lectures by fire prevention officers were given at 25 meetings in hospitals, schools, hotel association workshops and similar events.

Firefighting Equipment in Saskatchewan

There are now over 95 rural fire protection associations in operation, protecting rural homes or a combination of rural and urban homes in smaller centres. Most of the associations cover districts, financed on a taxation basis, and they protect from one to three rural municipalities. They include some towns, villages and hamlets within their particular rural municipalities. Several rural fire departments are operating on a co-operative basis and by subscription.

Provincial legislation provides for agreements to share the cost of firefighting equipment under the various municipal Acts, and provides for taxation over all or part of any municipality for fire protection. There are over 500 pumping units in the province, having pump capacities of 425 gallons or more per minute.

Plans and Specifications

During the fiscal year ended March 31, 1986, 1,199 plans and specifications for new buildings or additions to existing buildings were reviewed. Of these, 401 were approved with minor provisions and 698 were approved subject to alterations. Approval was not given in 100 examinations, either because more information was required or because major redesign was necessary or because the review was only advisory. The above figures do not include sketches or drawings which were reviewed in consultation with architects and other interested persons previous to the preparation of preliminary and/or final drawings.

As in previous years, plans required to be submitted were examined for compliance with the Flammable Liquids Regulations, the Hotel Regulations, the Hospital Fire Regulations, the Regulations Governing Fire Safety in Educational Buildings, the Regulations Governing Installation of Automatic Sprinkler Systems and pertinent sections of the regulations under *The Housing and Special-care Homes Act.*

In examining plans submitted for government buildings and plans voluntarily submitted for structures such as churches, lodge rooms, and dry cleaning plants, the Fire Commissioner's Unit continued to apply the National Building Code of Canada as widely as possible. Codes of the National Fire Protection Association and other standards of good practice are also used for this purpose.

Table 24 shows the number of plans and specifications reviewed by disposition, 1976-77 to 1985-86.

Fire Investigation

During 1985-86 Fire Crime Reports were submitted for 754 investigations. Such reports are submitted by fire departments, police and Fire Commissioner's Unit staff. Fire Commissioner's Unit staff participated in 171 investigations including cases in which arson was suspected, and cases in which, for fire prevention reasons, it would be in the public's interest to determine the cause of the fire. While fire prevention officers made a number of investigations unassisted, they frequently assisted law enforcement officers in determining the cause of the fire whether accidental or intentional in origin. The results and disposition of the Fire Crime Report investigations are illustrated in Tables 20, 21 and 22. Table 23 indicates the number of investigations of this category made since 1976-77. It should be noted that all fires reported are investigated for cause, origin and circumstance by the local assistant to the Fire Commissioner (secretary-treasurers, fire chief and his staff) or police or insurance agencies or special investigation units or the Fire Commissioner's staff or a combination of these forces.

Two Fire Commissioner's inquiries to determine cause, origin and circumstance were undertaken in 1985.

Fire Record

Under the provisions of *The Fire Prevention Act,* the Fire Commissioner is required to maintain a record of fires occuring in the province and to include facts relating to origin and circumstances as they have been determined by the Fire Commissioner's Unit from reports of staff, fire chiefs, adjusters and police. The results are shown in Tables 1 to 14 inclusive. Information relating to fire deaths and injuries is shown in Tables 15 to 19.

Table 1

Fire Losses by Property Classification, Saskatchewan, 1985

Class of property	Number of fires	Percent	Estimated dollar loss	Percent
Total, all property classifications	**2,797**	**100.00%**	**$31,700,746**	**100.00%**
Assembly				
Total	**49**	**1.75**	**1,537,204**	**4.85**
Theatre, studio, auditorium	1	0.04	105,000	0.33
Amusement, recreation place	9	0.32	270,768	0.85
School, college, university	11	0.39	92,500	0.29
Church, court room, mortuary	4	0.14	7,500	0.02
Social, sport club	1	0.04	73,000	0.23
Library, museum	—	—	—	—
Eating establishment	23	0.82	988,436	3.12
Passenger terminal station	—	—	—	—
Miscellaneous	—	—	—	—
Institutional				
Total	**19**	**0.68**	**55,718**	**0.18**
Prison, jail, reformatory	4	0.14	24,000	0.08
Home for aged	13	0.46	29,218	0.09
Childrens' hospital	—	—	—	—
Hospital, sanatorium, clinic	2	0.07	2,500	0.01
Miscellaneous	—	—	—	—
Residential				
Total	**902**	**32.25**	**12,460,781**	**39.31**
Family residence, duplex	685	24.49	8,370,089	26.40
Apartment, tenement, flat	95	3.40	717,311	2.26
Rooming, boarding house	1	0.04	18,000	0.06
Hotel, inn, lodge	23	0.82	2,135,005	6.73
Motor hotel, motel	4	0.14	185,881	0.59
Dormitory	3	0.11	82,137	0.26
Mobile home, trailer	88	3.15	948,987	2.99
Miscellaneous	3	0.11	3,371	0.01
Business and personal service				
Total	**11**	**0.39**	**401,891**	**1.27**
Office	10	0.36	347,891	1.10
Personal service	—	—	—	—
Miscellaneous	1	0.04	54,000	0.17

Table 1 (continued)

Fire Losses by Property Classification, Saskatchewan, 1985

Class of property	Number of fires	Percent	Estimated dollar loss	Percent
Mercantile				
Total	**58**	**2.07%**	**$3,244,107**	**10.23%**
Food, beverage sales	11	0.39	1,475,135	4.65
Textiles, clothes sales	2	0.07	—	—
Furniture, appliance sales	4	0.14	42,598	0.13
Books, news, drug sales	—	—	—	—
Recreation, hobby supplies	—	—	—	—
Repair shop, dry cleaner	10	0.36	138,146	0.44
Motor vehicles, boats, sales and service	21	0.75	660,662	2.08
Department, variety store	2	0.07	4,500	0.01
Miscellaneous	8	0.29	923,066	2.91
Industrial manufacturing				
Total	**41**	**1.47**	**2,758,870**	**8.70**
Chemicals, paints, plastics	2	0.07	105,000	0.33
Wood, furniture, paper	8	0.29	1,904,400	6.01
Metal, electrical equipment	9	0.32	481,385	1.52
Food processing	14	0.50	47,072	0.15
Beverage, tobacco, soap	1	0.04	—	—
Footwear, clothes	—	—	—	—
Vehicles and related equipment	1	0.04	142,500	0.45
Miscellaneous	6	0.21	78,513	0.25
Industrial storage				
Total	**200**	**7.15**	**3,859,170**	**12.17**
Agricultural products	53	1.89	1,617,064	5.10
Textiles, fibres, clothing	—	—	—	—
Processed food, beverage	1	0.04	5,000	0.02
Flammable liquids, gases	5	0.18	10,300	0.03
Wood, furniture, paper	5	0.18	1,020,482	3.22
Chemicals, plastics, paints	1	0.04	—	—
Metal and electrical products	—	—	—	—
Vehicles	121	4.33	709,685	2.24
General item storage	14	0.50	496,639	1.57
Special property				
Total	**245**	**8.76**	**1,774,539**	**5.60**
Outdoor property	44	1.57	6,167	0.02
Pier, wharf	2	0.07	—	—
Under construction, vacant	37	1.32	716,532	2.26
Watercraft	3	0.11	8,707	0.03
Rail transport equipment	4	0.14	5,750	0.02
Aircraft	—	—	—	—
Special vehicles				
Construction equipment	17	0.60	467,587	1.47
Farm tractors and equipment	115	4.11	460,167	1.45
Other	11	0.39	96,129	0.30
Miscellaneous	12	0.43	13,500	.04

Table 1 (continued)

Fire Losses by Property Classification, Saskatchewan, 1985

Class of property	Number of fires	Percent	Estimated dollar loss	Percent
Miscellaneous				
Total	**222**	**7.94%**	**$2,883,480**	**9.10%**
Laboratories	1	0.04	47,000	0.15
Farm facility	97	3.47	1,750,165	5.52
Miscellaneous outbuildings	106	3.79	1,057,541	3.34
Utility	8	0.29	26,793	0.08
Cement, glass, pottery manufacturing	—	—	—	—
Mining, quarrying	1	0.04	—	—
Communications, data processing	—	—	—	—
Miscellaneous	9	0.32	1,981	0.01
Automobiles, trucks and other ground transport				
Total	**1,050**	**37.54**	**2,724,986**	**8.59**
Automobiles	581	20.77	1,011,310	3.19
Trucks	428	15.30	1,574,909	4.97
Motorcycles	17	0.61	30,458	0.10
Other	24	0.86	108,309	0.34

Note: The sums of individual items may not always equal the totals due to rounding.

Table 2

Fire Losses by Form of Heat of Ignition, Saskatchewan, 1985

Form of heat of ignition	Number of fires	Percent	Loss estimate	Percent
Total	**2,797**	**100.00%**	**$25,747,955**	**100.00%**
Spark, ember	146	5.22	1,486,374	5.77
Spark, electrical	683	24.42	4,479,999	17.40
Spark, static electrical	16	0.57	149,464	0.58
Direct flame	370	13.23	2,821,845	10.96
Friction heat	22	0.79	544,848	2.12
Hot object-direct heat	504	18.02	4,591,546	17.83
Spontaneous ignition	51	1.82	650,883	2.53
Heat from smokers' materials	166	5.93	1,288,184	5.00
Unclassified	35	1.25	651,788	2.53
Unknown	804	28.75	9,083,024	35.28

Note: The sums of individual items may not always equal the totals due to rounding.

Table 3

Fire Losses by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1985

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,797**	**100.00%**	**$25,747,955**	**100.00%**
Means of egress	30	1.07	758,100	2.94
Assembly, sales area	120	4.29	1,104,022	4.29
Function area	629	22.49	9,490,650	36.86
Storage area	196	7.01	2,301,822	8.94
Service facility	80	2.86	1,842,638	7.16
Service and equipment area	91	3.25	3,312,549	12.87
Structural area	128	4.58	1,703,732	6.62
Vehicle area	19	0.68	243,627	0.95
Outside area	209	7.47	588,338	2.28
Special Property	1,295	46.30	4,402,477	17.10
Assembly				
Total	**49**	**1.75**	**1,144,719**	**4.45**
Means of egress	2	0.07	4,000	0.02
Assembly, sales area	4	0.14	500	0.00
Function area	20	0.72	126,070	0.49
Storage area	2	0.07	—	—
Service facility	5	0.18	12,881	0.05
Service and equipment area	9	0.32	449,118	1.74
Structural area	6	0.21	552,000	2.14
Vehicle area	—	—	—	—
Outside area	1	0.04	150	0.00
Institutional				
Total	**19**	**0.68**	**55,718**	**0.22**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	12	0.43	15,479	0.06
Storage area	4	0.14	13,739	0.05
Service facility	1	0.04	—	—
Service and equipment area	—	—	—	—
Structural area	2	0.07	26,500	0.10
Vehicle area	—	—	—	—
Outside area	—	—	—	—

Table 3 (continued)

Fire Losses by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1985

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**902**	**32.25%**	**$10,113,131**	**39.28%**
Means of egress	24	0.86	708,564	2.75
Assembly, sales area	112	4.00	1,007,136	3.91
Function area	495	17.70	4,364,462	16.95
Storage area	31	1.11	1,365,299	5.30
Service facility	59	2.11	324,281	1.26
Service and equipment area	51	1.82	1,124,302	4.37
Structural area	82	2.93	991,513	3.85
Vehicle area	12	0.43	30,637	0.12
Outside area	36	1.29	196,937	0.76
Business and personal service				
Total	**11**	**0.39**	**75,854**	**0.29**
Means of egress	2	0.07	—	—
Assembly, sales area	1	0.04	1,354	0.01
Function area	2	0.07	500	—
Storage area	2	0.07	54,000	0.21
Service facility	1	0.04	—	—
Service and equipment area	2	0.07	20,000	0.08
Structural area	1	0.04	—	—
Vehicle area	—	—	—	—
Outside area	—	—	—	—
Mercantile				
Total	**58**	**2.07**	**2,819,107**	**10.95**
Means of egress	—	—	—	—
Assembly, sales area	3	0.11	95,032	0.37
Function area	22	0.79	2,295,880	8.92
Storage area	11	0.39	167,549	0.65
Service facility	2	0.07	—	—
Service and equipment area	10	0.36	247,646	0.96
Structural area	6	0.21	5,000	0.02
Vehicle area	—	—	—	—
Outside area	4	0.14	8,000	0.03

Table 3 (continued)

Fire Losses by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1985

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**41**	**1.47%**	**$ 1,210,870**	**4.70%**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	15	0.54	600,627	2.33
Storage area	7	0.25	150	0.00
Service facility	4	0.14	83,811	0.33
Service and equipment area	10	0.36	400,297	1.55
Structural area	3	0.11	20,985	0.08
Vehicle area	1	0.04	105,000	0.41
Outside area	1	0.04	—	—
Industrial storage				
Total	**200**	**7.15**	**3,168,989**	**12.31**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	15	0.54	40,686	0.16
Storage area	94	3.36	456,420	1.77
Service facility	6	0.21	1,420,650	5.52
Service and equipment area	4	0.14	1,033,364	4.01
Structural area	17	0.61	70,175	0.27
Vehicle area	3	0.11	18,500	0.07
Outside area	61	2.18	129,194	0.50
Miscellaneous				
Total	**222**	**7.94**	**2,757,090**	**10.71**
Means of egress	2	0.07	45,536	0.18
Assembly, sales area	—	—	—	—
Function area	48	1.72	2,046,946	7.95
Storage area	45	1.61	244,665	0.95
Service facility	2	0.07	1,015	0.00
Service and equipment area	5	0.18	37,822	0.15
Structural area	11	0.39	37,559	0.15
Vehicle area	3	0.11	89,490	0.35
Outside area	106	3.79	254,057	0.99
Special Property*				
Total	**1,295**	**46.30**	**4,402,477**	**17.10**

Note: The sums of individual items may not always equal the totals due to rounding.

* This category includes automobiles and outdoor property; piers, wharves, structures vacant or under construction; watercraft; rail transport equipment; ground transport vehicles; aircraft; special vehicles, etc.

Table 4

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1985

Act or omission	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,797**	**100.00%**	**$25,747,955**	**100.00%**
Incendiary or set fires	153	5.47	3,168,006	12.30
Misuse of source of ignition	374	13.37	2,489,228	9.67
Misuse of material ignited	134	4.79	1,440,573	5.59
Mechanical failure	1,257	44.94	8,110,204	31.50
Design deficiency	86	3.07	1,959,977	7.61
Misuse of equipment	19	0.68	332,488	1.29
Human failing	221	7.90	1,506,156	5.85
Vehicle accident	10	0.36	277,001	1.08
Miscellaneous	543	19.41	6,464,322	25.11
Assembly				
Total	**49**	**1.75**	**1,144,719**	**4.45**
Incendiary or set fires	9	0.32	11,815	0.05
Misuse of source of ignition	3	0.11	1,000	0.00
Misuse of material ignited	4	0.14	12,291	0.05
Mechanical failure	16	0.57	370,666	1.44
Design deficiency	2	0.07	—	—
Misuse of equipment	1	0.04	—	—
Human failing	7	0.25	4,947	0.02
Vehicle accident	—	—	—	—
Miscellaneous	7	0.25	744,000	2.89
Institutional				
Total	**19**	**0.68**	**55,718**	**0.22**
Incendiary or set fires	4	0.14	11,239	0.04
Misuse of source of ignition	4	0.14	—	—
Misuse of material ignited	1	0.04	2,500	0.01
Mechanical failure	3	0.11	14,639	0.06
Design deficiency	1	0.04	24,000	0.09
Misuse of equipment	—	—	—	—
Human failing	4	0.14	3,340	0.01
Vehicle accident	—	—	—	—
Miscellaneous	2	0.07	—	—

Table 4 (continued)

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1985

Act or omission	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**902**	**32.25%**	**$10,113,131**	**39.28%**
Incendiary or set fires	42	1.50	1,274,566	4.95
Misuse of source of ignition	181	6.47	1,173,587	4.56
Misuse of material ignited	62	2.22	461,093	1.79
Mechanical failure	198	7.08	2,672,755	10.38
Design deficiency	59	2.11	397,527	1.54
Misuse of equipment	7	0.25	51,858	0.20
Human failing	192	6.86	1,438,770	5.59
Vehicle accident	—	—	—	—
Miscellaneous	161	5.76	2,642,975	10.26
Business and personal service				
Total	**11**	**0.39**	**75,854**	**0.29**
Incendiary or set fires	2	0.07	—	—
Misuse of source of ignition	4	0.14	1,854	0.01
Misuse of material ignited	1	0.04	20,000	0.08
Mechanical failure	2	0.07	—	—
Design deficiency	—	—	—	—
Misuse of equipment	—	—	—	—
Human failing	—	—	—	—
Vehicle accident	—	—	—	—
Miscellaneous	2	0.07	54,000	0.21
Mercantile				
Total	**58**	**2.07**	**2,819,107**	**10.95**
Incendiary or set fires	6	0.21	1,264,063	4.91
Misuse of source of ignition	12	0.43	32,309	0.13
Misuse of material ignited	4	0.14	149,300	0.58
Mechanical failure	16	0.57	937,132	3.64
Design deficiency	2	0.07	—	—
Misuse of equipment	1	0.04	275,000	1.07
Human failing	2	0.07	2,600	0.01
Vehicle accident	1	0.04	—	—
Miscellaneous	14	0.50	158,703	0.62

Table 4 (continued)

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1985

Act or omission	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**41**	**1.47%**	**$ 1,210,870**	**4.70%**
Incendiary or set fires	1	0.04	—	—
Misuse of source of ignition	4	0.14	10,000	0.04
Misuse of material ignited	7	0.25	502,397	1.95
Mechanical failure	11	0.39	82,108	0.32
Design deficiency	2	0.07	20,985	0.08
Misuse of equipment	—	0.00	—	—
Human failing	—	0.00	—	—
Vehicle accident	—	—	—	—
Miscellaneous	16	0.57	595,380	2.31
Industrial storage				
Total	**200**	**7.15**	**3,168,989**	**12.31**
Incendiary or set fires	21	0.75	32,554	0.13
Misuse of source of ignition	44	1.57	188,163	0.73
Misuse of material ignited	16	0.57	85,140	0.33
Mechanical failure	30	1.07	1,169,158	4.54
Design deficiency	10	0.36	1,435,655	5.58
Misuse of equipment	3	0.11	—	—
Human failing	1	0.04	11,938	0.05
Vehicle accident	—	—	—	—
Miscellaneous	75	2.68	246,381	0.96
Special property				
Total	**1,295**	**46.30**	**4,402,477**	**17.10**
Incendiary or set fires	57	2.04	411,365	1.60
Misuse of source of ignition	61	2.18	107,944	0.42
Misuse of material ignited	25	0.89	171,753	0.67
Mechanical failure	943	33.71	2,730,187	10.60
Design deficiency	6	0.21	47,310	0.18
Misuse of equipment	5	0.18	3,579	0.01
Human failing	14	0.50	44,561	0.17
Vehicle accident	8	0.29	252,001	0.98
Miscellaneous	176	6.29	633,777	2.46

Table 4 (continued)

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1985

Act or omission	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**222**	**7.94%**	**$ 2,757,090**	**10.71%**
Incendiary or set fires	11	0.39	162,404	0.63
Misuse of source of ignition	61	2.18	974,371	3.78
Misuse of material ignited	14	0.50	36,099	0.14
Mechanical failure	38	1.36	133,559	0.52
Design deficiency	4	0.14	34,500	0.13
Misuse of equipment	2	0.07	2,051	0.01
Human failing	1	0.04	—	—
Vehicle accident	1	0.04	25,000	0.10
Miscellaneous	90	3.22	1,389,106	5.40

Note: The sums of individual items may not always equal the totals due to rounding.

Table 5

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,797**	**100.00%**	**$25,747,955**	**100.00%**
Heating equipment	247	8.83	2,464,520	9.57
Cooking equipment	238	8.51	994,698	3.86
Smokers' materials	153	5.47	1,278,249	4.96
Electrical distribution equipment	465	16.62	2,507,504	9.74
Electrical appliances	94	3.36	1,191,625	4.63
Other appliances	294	10.51	772,699	3.00
Open flames	245	8.76	3,259,482	12.66
Exposure	194	6.94	411,192	1.60
Miscellaneous	867	31.00	12,867,986	49.98
Assembly				
Total	**49**	**1.75**	**1,144,719**	**4.45**
Heating equipment	8	0.29	2,184	0.01
Cooking equipment	11	0.39	8,945	0.03
Smokers' materials	3	0.11	1,000	0.00
Electrical distribution equipment	4	0.14	76,500	0.30
Electrical appliances	3	0.11	4,150	0.02
Other appliances	—	—	—	—
Open flames	6	0.21	4,500	0.02
Exposure	1	0.04	—	—
Miscellaneous	13	0.46	1,047,440	4.07
Institutional				
Total	**19**	**0.68**	**55,718**	**0.22**
Heating equipment	1	0.04	24,000	0.09
Cooking equipment	3	0.11	740	0.00
Smokers' materials	5	0.18	1,900	0.01
Electrical distribution equipment	—	—	—	—
Electrical appliances	4	0.14	15,339	0.06
Other appliances	—	—	—	—
Open flames	3	0.11	2,500	0.01
Exposure	—	—	—	—
Miscellaneous	3	0.11	11,239	0.04

Table 5 (continued)

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**902**	**32.25%**	**$10,113,131**	**39.28%**
Heating equipment	166	5.93	1,686,191	6.55
Cooking equipment	200	7.15	981,118	3.81
Smokers' materials	111	3.97	975,133	3.79
Electrical distribution equipment	82	2.93	912,867	3.55
Electrical appliances	46	1.64	428,754	1.67
Other appliances	26	0.93	133,125	0.52
Open flames	93	3.32	874,570	3.40
Exposure	24	0.86	61,928	0.24
Miscellaneous	154	5.51	4,059,445	15.77
Business and personal service				
Total	**11**	**0.39**	**75,854**	**0.29**
Heating equipment	1	0.04	20,000	0.08
Cooking equipment	—	—	—	—
Smokers' materials	1	0.04	500	0.00
Electrical distribution equipment	2	0.07	—	—
Electrical appliances	—	—	—	—
Other appliances	—	—	—	—
Open flames	3	0.11	1,354	0.01
Exposure	—	—	—	—
Miscellaneous	4	0.14	54,000	0.21
Mercantile				
Total	**58**	**2.07**	**2,819,107**	**10.95**
Heating equipment	10	0.36	435,116	1.69
Cooking equipment	2	0.07	—	—
Smokers' materials	2	0.07	500	0.00
Electrical distribution equipment	11	0.39	336,897	1.31
Electrical appliances	4	0.14	641,318	2.49
Other appliances	—	—	—	—
Open flames	11	0.39	1,208,809	4.69
Exposure	3	0.11	8,000	0.03
Miscellaneous	15	0.54	188,467	0.73

Table 5 (continued)

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**41**	**1.47%**	**$ 1,210,870**	**4.70%**
Heating equipment	5	0.18	12,348	0.05
Cooking equipment	3	0.11	307	0.00
Smokers' materials	—	—	—	—
Electrical distribution equipment	3	0.11	84,948	0.33
Electrical appliances	2	0.07	—	—
Other appliances	2	0.07	14,840	0.06
Open flames	5	0.18	22,977	0.09
Exposure	—	—	—	—
Miscellaneous	21	0.75	1,075,450	4.18
Industrial storage				
Total	**200**	**7.15**	**3,168,989**	**12.31**
Heating equipment	21	0.75	77,763	0.30
Cooking equipment	2	0.07	290	0.00
Smokers' materials	2	0.07	3,000	0.01
Electrical distribution equipment	14	0.50	73,688	0.29
Electrical appliances	3	0.11	27,200	0.11
Other appliances	7	0.25	38,336	0.15
Open flames	40	1.43	179,108	0.70
Exposure	46	1.64	43,638	0.17
Miscellaneous	65	2.32	2,725,966	10.59
Special property				
Total	**1,295**	**46.30**	**4,402,477**	**17.10**
Heating equipment	26	0.93	163,699	0.64
Cooking equipment	12	0.43	2,655	0.01
Smokers' materials	25	0.89	293,416	1.14
Electrical distribution equipment	329	11.76	917,551	3.56
Electrical appliances	16	0.57	37,487	0.15
Other appliances	255	9.12	575,792	2.24
Open flames	53	1.89	135,823	0.53
Exposure	53	1.89	143,513	0.56
Miscellaneous	526	18.81	2,132,541	8.28

Table 5 (continued)

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**222**	**7.94%**	**$ 2,757,090**	**10.71%**
Heating equipment	9	0.32	43,219	0.17
Cooking equipment	5	0.18	643	0.00
Smokers' materials	4	0.14	2,800	0.01
Electrical distribution equipment	20	0.72	105,053	0.41
Electrical appliances	16	0.57	37,377	0.15
Other appliances	4	0.14	10,606	0.04
Open flames	31	1.11	829,841	3.22
Exposure	67	2.40	154,113	0.60
Miscellaneous	66	2.36	1,573,438	6.11

Note: The sums of individual items may not always equal totals due to rounding.

Table 6

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1985

Material first ignited	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,797**	**100.00%**	**$25,747,955**	**100.00%**
Building materials	297	10.62	4,276,253	16.61
Furnishings	186	6.65	1,334,342	5.18
Clothing, textiles	77	2.75	347,818	1.35
Wood, paper products	216	7.72	3,497,741	13.58
Flammable liquids	455	16.27	2,821,440	10.96
Flammable gases	87	3.11	624,895	2.43
Chemicals	78	2.79	163,573	0.64
Agricultural, forestry products	170	6.08	1,039,395	4.04
Miscellaneous	1,231	44.01	11,642,498	45.22
Assembly				
Total	**49**	**1.75**	**1,144,719**	**4.45**
Building materials	9	0.32	4,618	0.02
Furnishings	1	0.04	—	—
Clothing, textiles	—	—	—	—
Wood, paper products	11	0.39	289,650	1.12
Flammable liquids	13	0.46	21,889	0.09
Flammable gases	1	0.04	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	—	—	—	—
Miscellaneous	14	0.50	828,562	3.22
Institutional				
Total	**19**	**0.68**	**55,718**	**0.22**
Building materials	1	0.04	24,000	0.09
Furnishings	3	0.11	2,600	0.01
Clothing, textiles	3	0.11	—	—
Wood, paper products	4	0.14	2,500	0.01
Flammable liquids	2	0.07	740	0.00
Flammable gases	—	—	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	1	0.04	2,500	0.01
Miscellaneous	5	0.18	23,378	0.09

Table 6 (continued)

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1985

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**902**	**32.25%**	**$10,113,131**	**39.28%**
Building materials	145	5.18	1,549,281	6.02
Furnishings	156	5.58	1,289,564	5.01
Clothing, textiles	48	1.72	286,236	1.11
Wood, paper products	96	3.43	778,352	3.02
Flammable liquids	159	5.68	936,572	3.64
Flammable gases	24	0.86	410,874	1.60
Chemicals	13	0.46	16,984	0.07
Agricultural, forestry products	8	0.29	39,015	0.15
Miscellaneous	253	9.05	4,806,253	18.67
Business and personal service				
Total	**11**	**0.39**	**75,854**	**0.29**
Building materials	1	0.04	1,354	0.01
Furnishings	—	—	—	—
Clothing, textiles	—	—	—	—
Wood, paper products	5	0.18	20,500	0.08
Flammable liquids	1	0.04	—	—
Flammable gases	—	—	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	—	—	—	—
Miscellaneous	4	0.14	54,000	0.21
Mercantile				
Total	**58**	**2.08**	**2,819,107**	**10.95**
Building materials	10	0.36	823,969	3.20
Furnishings	1	0.04	8,849	0.03
Clothing, textiles	2	0.07	28,443	0.11
Wood, paper products	7	0.25	792,500	3.08
Flammable liquids	7	0.25	589,151	2.29
Flammable gases	3	0.11	68,700	0.27
Chemicals	1	0.04	—	—
Agricultural, forestry products	2	0.07	398	0.00
Miscellaneous	25	0.89	507,097	1.97

Table 6 (continued)

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1985

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**41**	**1.47%**	**$1,210,870**	**4.70%**
Building materials	3	0.11	84,948	0.33
Furnishings	—	—	—	—
Clothing, textiles	1	0.04	—	—
Wood, paper products	9	0.32	160,000	0.62
Flammable liquids	5	0.18	152,845	0.59
Flammable gases	1	0.04	7,340	0.03
Chemicals	1	0.04	—	—
Agricultural, forestry products	2	0.07	350,000	1.36
Miscellaneous	19	0.68	455,737	1.77
Industrial storage				
Total	**200**	**7.15**	**3,168,989**	**12.31**
Building materials	47	1.68	1,462,593	5.68
Furnishings	6	0.21	3,526	0.01
Clothing, textiles	4	0.14	8,256	0.03
Wood, paper products	29	1.04	1,079,428	4.19
Flammable liquids	18	0.64	161,493	0.63
Flammable gases	8	0.29	26,210	0.10
Chemicals	1	0.04	—	—
Agricultural, forestry products	22	0.79	111,616	0.43
Miscellaneous	65	2.32	315,867	1.23
Special property				
Total	**1,285**	**46.30**	**4,402,477**	**17.10**
Building materials	26	0.93	187,519	0.73
Furnishings	19	0.68	29,803	0.12
Clothing, textiles	18	0.64	24,883	0.10
Wood, paper products	36	1.29	340,144	1.32
Flammable liquids	240	8.58	941,260	3.66
Flammable gases	44	1.57	104,915	0.41
Chemicals	62	2.22	146,589	0.57
Agricultural, forestry products	76	2.72	307,383	1.19
Miscellaneous	774	27.67	2,319,981	9.01

Table 6 (continued)

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1985

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**222**	**7.94%**	**$2,757,090**	**10.71%**
Building materials	55	1.97	137,971	0.54
Furnishings	—	—	—	—
Clothing, textiles	1	0.04	—	—
Wood, paper products	19	0.68	34,667	0.13
Flammable liquids	10	0.36	17,490	0.07
Flammable gases	6	0.21	6,856	0.03
Chemicals	—	—	—	—
Agricultural, forestry products	59	2.11	228,483	0.89
Miscellaneous	72	2.57	2,331,623	9.06

Note: The sums of individual items may not always equal the totals due to rounding.

Table 7

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1985

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,797**	**100.00%**	**$25,747,955**	**100.00%**
Coal, wood	404	14.44	2,538,834	9.86
Fuel oil	34	1.22	571,692	2.22
Gasoline	241	8.62	974,736	3.79
Natural gas	57	2.04	827,361	3.21
Propane, etc.	91	3.25	1,297,057	5.04
Smokers' materials	279	9.97	1,740,998	6.76
Electricity	850	30.39	6,129,985	23.81
Lightning	11	0.39	114,009	0.44
Unclassified	66	2.36	746,961	2.90
Unknown	764	27.31	10,806,322	41.97
Assembly				
Total	**49**	**1.75**	**1,144,719**	**4.45**
Coal, wood	5	0.18	—	—
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	11	0.39	286,931	1.11
Propane, etc.	—	—	—	—
Smokers' materials	8	0.29	5,500	0.02
Electricity	14	0.50	89,348	0.35
Lightning	—	—	—	—
Unclassified	—	—	—	—
Unknown	11	0.39	762,940	2.96
Institutional				
Total	**19**	**0.68**	**55,718**	**0.22**
Coal, wood	2	0.07	24,000	0.09
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	—	—	—	—
Propane, etc.	—	—	—	—
Smokers' materials	7	0.25	4,400	0.02
Electricity	7	0.25	16,079	0.06
Lightning	—	—	—	—
Unclassified	1	0.04	11,239	0.04
Unknown	2	0.07	—	—

Table 7 (continued)

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1985

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**902**	**32.25%**	**$10,113,131**	**39.28%**
Coal, wood	155	5.54	1,050,400	4.08
Fuel oil	13	0.46	266,023	1.03
Gasoline	5	0.18	194,500	0.76
Natural gas	35	1.25	415,970	1.62
Propane, etc.	33	1.18	377,630	1.47
Smokers' materials	169	6.04	1,298,208	5.04
Electricity	330	11.80	2,553,709	9.92
Lightning	4	0.14	65,161	0.25
Unclassified	11	0.39	90,343	0.35
Unknown	147	5.26	3,801,187	14.76
Business and personal service				
Total	**11**	**0.39**	**75,854**	**0.29**
Coal, wood	—	—	—	—
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	1	0.04	20,000	0.08
Propane, etc.	1	0.04	1,354	0.01
Smokers' materials	4	0.14	500	0.00
Electricity	3	0.11	—	—
Lightning	—	—	—	—
Unclassified	—	—	—	—
Unknown	2	0.07	54,000	0.21
Mercantile				
Total	**58**	**2.07**	**2,819,107**	**10.95**
Coal, wood	13	0.46	753,416	2.93
Fuel oil	1	0.04	63,689	0.25
Gasoline	1	0.04	—	—
Natural gas	3	0.11	68,700	0.27
Propane, etc.	2	0.07	398	0.00
Smokers' materials	3	0.11	—	—
Electricity	16	0.57	975,332	3.79
Lightning	—	—	—	—
Unclassified	2	0.07	52,500	0.20
Unknown	17	0.61	905,072	3.52

Table 7 (continued)

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1985

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**41**	**1.47%**	**$1,210,870**	**4.70%**
Coal, wood	12	0.43	182,552	0.71
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	1	0.04	—	—
Propane, etc.	5	0.18	10,420	0.04
Smokers' materials	—	—	—	—
Electricity	7	0.25	94,948	0.37
Lightning	—	—	—	—
Unclassified	2	0.07	370,000	1.44
Unknown	14	0.50	552,950	2.15
Industrial storage				
Total	**200**	**7.15**	**3,168,989**	**12.31**
Coal, wood	75	2.68	173,814	0.68
Fuel oil	6	0.21	27,528	0.11
Gasoline	8	0.29	21,399	0.08
Natural gas	3	0.11	25,927	0.10
Propane, etc.	10	0.36	31,849	0.12
Smokers' materials	21	0.75	92,895	0.36
Electricity	23	0.82	1,115,491	4.33
Lightning	2	0.07	9,977	0.04
Unclassified	11	0.39	80,493	0.31
Unknown	41	1.47	1,589,616	6.17
Special property				
Total	**1,295**	**46.30**	**4,402,477**	**17.10**
Coal, wood	61	2.18	83,111	0.32
Fuel oil	12	0.43	208,356	0.81
Gasoline	222	7.94	754,067	2.93
Natural gas	1	0.04	—	—
Propane, etc.	33	1.18	119,386	0.46
Smokers' materials	45	1.61	305,482	1.19
Electricity	409	14.62	1,107,587	4.30
Lightning	—	—	—	—
Unclassified	33	1.18	133,566	0.52
Unknown	479	17.13	1,690,922	6.57

Table 7 (continued)

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1985

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**222**	**7.94%**	**$2,757,090**	**10.71%**
Coal, wood	81	2.90	271,541	1.05
Fuel oil	2	0.07	6,096	0.02
Gasoline	5	0.18	4,770	0.02
Natural gas	2	0.07	9,833	0.04
Propane, etc.	7	0.25	756,020	2.94
Smokers' materials	22	0.79	34,013	0.13
Electricity	41	1.47	177,491	0.69
Lightning	5	0.18	38,871	0.15
Unclassified	6	0.21	8,820	0.03
Unknown	51	1.82	1,449,635	5.63

Note: The sums of individual items may not always equal the totals due to rounding.

Table 8

Fire Losses by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1985

Area of origin of fire	Number of fires	Dollar loss
All types of residences		
Total	**902**	**$10,113,131**
Means of egress	24	708,564
Assembly, sales area	113	1,039,136
Function area	495	4,364,462
Storage area	31	1,365,299
Service facility	59	324,281
Service and equipment area	51	1,124,302
Structural area	82	991,513
Vehicle area	12	30,637
Outside area or unknown	35	164,937
One and two family residences		
Total	**685**	**6,903,539**
Means of egress	12	85,504
Assembly, sales area	92	876,346
Function area	379	3,199,995
Storage area	20	508,220
Service facility	57	322,261
Service and equipment area	39	1,009,260
Structural area	62	780,329
Vehicle area	—	—
Outside area or unknown	24	121,624
Apartment		
Total	**95**	**691,111**
Means of egress	6	42,600
Assembly, sales area	16	116,000
Function area	56	347,720
Storage area	3	130,000
Service facility	—	—
Service and equipment area	4	6,208
Structural area	6	12,403
Vehicle area	—	—
Outside area or unknown	4	36,180

Table 8 (continued)

Fire Losses by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1985

Area of origin of fire	Number of fires	Dollar loss
Rooming or boarding house		
Total	**1**	**$ 18,000**
Means of egress	—	—
Assembly, sales area	—	—
Function area	—	—
Storage area	1	18,000
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	—	—
Hotel, inn or lodge		
Total	**23**	**1,390,005**
Means of egress	2	556,000
Assembly, sales area	—	—
Function area	19	251,005
Storage area	1	583,000
Service facility	1	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	—	—
Motor hotel or motel		
Total	**4**	**185,881**
Means of egress	—	—
Assembly, sales area	—	—
Function area	2	178,000
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	2	7,881
Vehicle area	—	—
Outside area or unknown	—	—

Table 8 (continued)

Fire Losses by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1985

Area of origin of fire	Number of fires	Dollar loss
Dormitory		
Total	**3**	**$ 82,137**
Means of egress	—	—
Assembly, sales area	—	—
Function area	2	82,137
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	1	—
Mobile home or trailer		
Total	**88**	**839,087**
Means of egress	4	24,460
Assembly, sales area	5	46,790
Function area	36	303,307
Storage area	6	126,079
Service facility	1	2,020
Service and equipment area	8	108,834
Structural area	12	190,900
Vehicle area	12	30,637
Outside area or unknown	4	6,060
Miscellaneous		
Total	**3**	**3,371**
Means of egress	—	—
Assembly, sales area	—	—
Function area	1	2,298
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	2	1,073

Table 9

Fire Losses by Act or Omission, According to Type of Residence, Saskatchewan, 1985

Act or omission	Number of fires	Dollar loss
All types of residences		
Total	**902**	**$10,113,131**
Arson and other fires	42	1,274,566
Misuse of heat	181	1,173,587
Misuse of materials	62	461,093
Malfunction	198	2,672,755
Deficiencies	59	397,527
Misuse of equipment	7	51,858
Human failings	192	1,438,770
Vehicle accidents	—	—
Unknown or miscellaneous	161	2,642,975
One and two family residences		
Total	**685**	**6,903,539**
Arson and other fires	29	618,566
Misuse of heat	143	892,988
Misuse of materials	49	406,221
Malfunction	144	1,682,198
Deficiencies	56	397,527
Misuse of equipment	2	10,658
Human failings	145	728,973
Vehicle accidents	—	—
Unknown or miscellaneous	117	2,166,408
Apartment		
Total	**95**	**691,111**
Arson and other fires	6	42,500
Misuse of heat	20	143,288
Misuse of materials	6	32,612
Malfunction	10	40,564
Deficiencies	—	—
Misuse of equipment	3	—
Human failings	34	286,791
Vehicle accidents	—	—
Unknown or miscellaneous	16	145,356

Table 9 (continued)

Fire Losses by Act or Omission, According to Type of Residence, Saskatchewan, 1985

Act or omission	Number of fires	Dollar loss
Rooming or boarding house		
Total	**1**	**$ 18,000**
Arson and other fires	—	—
Misuse of heat	—	—
Misuse of materials	—	—
Malfunction	—	—
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	—	—
Vehicle accidents	—	—
Unknown or miscellaneous	1	18,000
Hotel, inn or lodge		
Total	**23**	**1,390,005**
Arson and other fires	3	557,500
Misuse of heat	5	350
Misuse of materials	3	3,000
Malfunction	3	585,943
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	5	2,057
Vehicle accidents	—	—
Unknown or miscellaneous	4	241,155
Motor hotel or motel		
Total	**4**	**185,881**
Arson and other fires	—	—
Misuse of heat	1	7,881
Misuse of materials	—	—
Malfunction	1	3,000
Deficiencies	1	—
Misuse of equipment	—	—
Human failings	1	175,000
Vehicle accidents	—	—
Unknown or miscellaneous	—	—

Table 9 (continued)

Fire Losses by Act or Omission, According to Type of Residence, Saskatchewan, 1985

Act or omission	Number of fires	Dollar loss
Dormitory		
Total	**3**	**$ 82,137**
Arson and other fires	—	—
Misuse of heat	—	—
Misuse of materials	—	—
Malfunction	—	—
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	2	82,137
Vehicle accidents	—	—
Unknown or miscellaneous	1	—
Mobile home or trailer		
Total	**88**	**839,087**
Arson and other fires	4	56,000
Misuse of heat	11	129,080
Misuse of materials	4	19,260
Malfunction	39	359,977
Deficiencies	2	—
Misuse of equipment	2	41,200
Human failings	5	163,812
Vehicle accidents	—	—
Unknown or miscellaneous	21	69,758
Miscellaneous		
Total	**3**	**3,371**
Arson and other fires	—	—
Misuse of heat	1	—
Misuse of materials	—	—
Malfunction	1	1,073
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	—	—
Vehicle accidents	—	—
Unknown or miscellaneous	1	2,298

Table 10

Fire Losses by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Dollar loss
All types of residences		
Total	**902**	**$10,113,131**
Heating equipment	166	1,686,191
Cooking equipment	200	981,118
Smokers' materials	111	975,133
Electric distribution equipment	82	912,867
Electric appliances	46	428,754
Non-electric appliances	26	133,125
Open flames	93	874,570
Exposure	24	61,928
Unknown or miscellaneous	154	4,059,445
One and two family residences		
Total	**685**	**6,903,539**
Heating equipment	143	1,513,323
Cooking equipment	157	771,637
Smokers' materials	78	613,411
Electric distribution equipment	67	829,404
Electric appliances	36	327,208
Non-electric appliances	18	48,411
Open flames	68	466,279
Exposure	18	55,868
Unknown or miscellaneous	100	2,277,998
Apartment		
Total	**95**	**691,111**
Heating equipment	4	11,300
Cooking equipment	28	41,656
Smokers' materials	25	357,525
Electric distribution equipment	3	6,208
Electric appliances	5	41,796
Non-electric appliances	2	53
Open flames	11	51,890
Exposure	1	—
Unknown or miscellaneous	16	180,683

Table 10 (continued)

Fire Losses by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Dollar loss
Rooming or boarding house		
Total	**1**	**$ 18,000**
Heating equipment	—	—
Cooking equipment	—	—
Smokers' materials	—	—
Electric distribution equipment	—	—
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	—	—
Exposure	—	—
Unknown or miscellaneous	1	18,000
Hotel, inn or lodge		
Total	**23**	**1,390,005**
Heating equipment	—	—
Cooking equipment	6	2,943
Smokers' materials	7	2,407
Electric distribution equipment	—	—
Electric appliances	1	3,000
Non-electric appliances	—	—
Open flames	1	—
Exposure	—	—
Unknown or miscellaneous	8	1,381,655
Motor hotel or motel		
Total	**4**	**185,881**
Heating equipment	1	—
Cooking equipment	—	—
Smokers' materials	—	—
Electric distribution equipment	—	—
Electric appliances	—	—
Non-electric appliances	1	3,000
Open flames	2	182,881
Exposure	—	—
Unknown or miscellaneous	—	—

Table 10 (continued)

Fire Losses by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1985

Source of heat of ignition	Number of fires	Dollar loss
Dormitory		
Total	**3**	**$ 82,137**
Heating equipment	—	—
Cooking equipment	—	—
Smokers' materials	—	—
Electric distribution equipment	—	—
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	1	75,000
Exposure	1	—
Unknown or miscellaneous	1	7,137
Mobile home or trailer		
Total	**88**	**839,087**
Heating equipment	18	161,568
Cooking equipment	9	164,882
Smokers' materials	1	1,790
Electric distribution equipment	11	76,182
Electric appliances	4	56,750
Non-electric appliances	5	81,661
Open flames	9	98,520
Exposure	4	6,060
Unknown or miscellaneous	27	191,674
Miscellaneous		
Total	**3**	**3,371**
Heating equipment	—	—
Cooking equipment	—	—
Smokers' materials	—	—
Electric distribution equipment	1	1,073
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	1	—
Exposure	—	—
Unknown or miscellaneous	1	2,298

Table 11

Fire Losses by Material First Ignited, According to Type of Residence, Saskatchewan, 1985

Material first ignited	Number of fires	Dollar loss
All types of residences		
Total	**902**	**$10,113,131**
Structural	145	1,549,281
Furniture	156	1,289,564
Clothing or textiles	48	286,236
Wood products	96	778,352
Flammable liquids	159	936,572
Flammable gases	24	410,874
Chemicals	13	16,984
Agricultural	8	39,015
Unknown or miscellaneous	253	4,806,253
One and two family residences		
Total	**685**	**6,903,539**
Structural	122	1,386,360
Furniture	113	810,256
Clothing or textiles	39	253,819
Wood products	73	602,114
Flammable liquids	127	726,639
Flammable gases	13	230,995
Chemicals	11	14,964
Agricultural	3	34,942
Unknown or miscellaneous	184	2,843,450
Apartment		
Total	**95**	**691,111**
Structural	8	74,791
Furniture	28	361,806
Clothing or textiles	5	—
Wood products	17	54,853
Flammable liquids	19	23,968
Flammable gases	1	—
Chemicals	1	—
Agricultural	1	—
Unknown or miscellaneous	15	175,693

Table 11 (continued)

Fire Losses by Material First Ignited, According to Type of Residence, Saskatchewan, 1985

Material first ignited	Number of fires	Dollar loss
Rooming or boarding house		
Total	**1**	**$ 18,000**
Structural	—	—
Furniture	—	—
Clothing or textiles	—	—
Wood products	1	18,000
Flammable liquids	—	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**23**	**1,390,005**
Structural	1	—
Furniture	7	20,925
Clothing or textiles	1	1,957
Wood products	—	—
Flammable liquids	6	2,943
Flammable gases	—	—
Chemicals	—	—
Agricultural	1	—
Unknown or miscellaneous	7	1,364,180
Motor hotel or motel		
Total	**4**	**185,881**
Structural	1	—
Furniture	—	—
Clothing or textiles	—	—
Wood products	1	7,881
Flammable liquids	—	—
Flammable gases	1	175,000
Chemicals	—	—
Agricultural	1	3,000
Unknown or miscellaneous	—	—

Table 11 (continued)

Fire Losses by Material First Ignited, According to Type of Residence, Saskatchewan, 1985

Material first ignited	Number of fires	Dollar loss
Dormitory		
Total	**3**	**$ 82,137**
Structural	1	—
Furniture	2	82,137
Clothing or textiles	—	—
Wood products	—	—
Flammable liquids	—	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	—	—
Mobile home or trailer		
Total	**88**	**839,087**
Structural	11	88,130
Furniture	6	14,440
Clothing or textiles	3	30,460
Wood products	4	95,504
Flammable liquids	7	183,022
Flammable gases	9	4,879
Chemicals	1	2,020
Agricultural	1	—
Unknown or miscellaneous	46	420,632
Miscellaneous		
Total	**3**	**3,371**
Structural	1	—
Furniture	—	—
Clothing or textiles	—	—
Wood products	—	—
Flammable liquids	—	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	1	1,073
Unknown or miscellaneous	1	2,298

Table 12

Fire Losses by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1985

Form of heat of ignition	Number of fires	Dollar loss
All types of residences		
Total	**902**	**$10,113,131**
Spark or ember	24	109,535
Electrical spark	134	1,620,556
Static electrical spark	2	942
Direct flame	141	1,275,957
Friction heat	1	2,625
Hot object	288	2,007,675
Spontaneous ignition	22	170,757
Heat-smokers' materials	118	1,228,975
Unknown or miscellaneous	172	3,696,109
One and two family residences		
Total	**685**	**6,903,539**
Spark or ember	20	103,475
Electrical spark	104	1,319,690
Static electrical spark	2	942
Direct flame	107	471,670
Friction heat	—	—
Hot object	238	1,643,877
Spontaneous ignition	16	166,757
Heat-smokers' materials	84	693,753
Unknown or miscellaneous	114	2,503,375
Apartment		
Total	**95**	**691,111**
Spark or ember	—	—
Electrical spark	8	38,564
Static electrical spark	—	—
Direct flame	14	63,243
Friction heat	—	—
Hot object	30	33,984
Spontaneous ignition	1	—
Heat-smokers' materials	24	356,025
Unknown or miscellaneous	18	199,295

Table 12 (continued)

Fire Losses by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1985

Form of heat of ignition	Number of fires	Dollar loss
Rooming or boarding house		
Total	**1**	**$ 18,000**
Spark or ember	—	—
Electrical spark	1	18,000
Static electrical spark	—	—
Direct flame	—	—
Friction heat	—	—
Hot object	—	—
Spontaneous ignition	—	—
Heat-smokers' materials	—	—
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**23**	**1,390,005**
Spark or ember	1	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	2	556,000
Friction heat	—	—
Hot object	6	5,943
Spontaneous ignition	1	—
Heat-smokers' materials	8	2,407
Unknown or miscellaneous	5	825,655
Motor hotel or motel		
Total	**4**	**185,881**
Spark or ember	—	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	2	7,881
Friction heat	—	—
Hot object	—	—
Spontaneous ignition	1	3,000
Heat-smokers' materials	1	175,000
Unknown or miscellaneous	—	—

Table 12 (continued)

Fire Losses by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1985

Form of heat of ignition	Number of fires	Dollar loss
Dormitory		
Total	**3**	**$ 82,137**
Spark or ember	1	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	1	75,000
Friction heat	—	—
Hot object	—	—
Spontaneous ignition	—	—
Heat-smokers' materials	—	—
Unknown or miscellaneous	1	7,137
Mobile home or trailer		
Total	**88**	**839,087**
Spark or ember	2	6,060
Electrical spark	20	243,229
Static electrical spark	—	—
Direct flame	14	102,163
Friction heat	1	2,625
Hot object	14	323,871
Spontaneous ignition	3	1,000
Heat-smokers' materials	1	1,790
Unknown or miscellaneous	33	158,349
Miscellaneous		
Total	**3**	**3,371**
Spark or ember	—	—
Electrical spark	1	1,073
Static electrical spark	—	—
Direct flame	1	—
Friction heat	—	—
Hot object	—	—
Spontaneous ignition	—	—
Heat-smokers' materials	—	—
Unknown or miscellaneous	1	2,298

Table 13

Property Loss Due to Fire, Saskatchewan, 1976 to 1985

Year	Number of fires	Total loss reported	Dollar loss per fire
Ten-year average	**3,092**	**$28,160,073**	**$8,994**
1976	2,892	13,392,033	4,631
1977	3,092	18,474,821	5,975
1978	2,650	18,126,409	6,840
1979	3,264	29,037,247	8,896
1980	3,722	48,932,799	13,147
1981	3,257	31,138,114	9,560
1982	3,209	29,361,627	9,150
1983	3,251	31,920,418	9,819
1984	2,789	35,469,311	12,718
1985	2,797	25,747,955	9,206

Table 14

Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1985

Urban municipality	Population*	Property loss†	Number of fires	Per capita loss
Total	**572,414**	**$9,412,908**	**1,373**	**$16.44**
Assiniboia	2,924	1,004,000	2	343.37
Battleford	3,565	70,391	6	19.75
Biggar	2,561	8,885	3	3.47
Canora	2,667	10,000	2	3.75
Carlyle	1,074	33,300	2	31.01
Carnduff	1,043	1,742	3	1.67
Carrot River	1,169	3,281	2	2.81
Coronach	1,032	10,188	3	9.87
Creighton	1,636	—	—	—
Dalmeny	1,064	2,993	2	2.81
Davidson	1,166	175,000	1	150.09
Esterhazy	3,065	2,885	4	0.94
Estevan	9,174	254,740	13	27.77
Eston	1,413	6,680	3	4.73
Foam Lake	1,452	—	3	—
Fort Qu'Appelle	1,827	43,700	4	23.92
Gravelbourg	1,338	56,444	6	42.19
Grenfell	1,307	—	—	—
Gull Lake	1,095	—	—	—
Herbert	1,019	4,950	2	4.86
Hudson Bay	2,361	61,826	11	26.19
Humboldt	4,705	27,551	5	7.98
Indian Head	1,889	700	2	0.37
Kamsack	2,688	52,460	3	19.52
Kelvington	1,054	—	1	—
Kerrobert	1,141	—	1	—
Kindersley	3,969	419,439	18	105.68
Kipling	1,016	583,000	2	573.82
Langenburg	1,324	—	—	—
Langham	1,151	—	—	—
Lanigan	1,732	—	—	—
La Ronge	2,579	40,979	1	15.89
Leader	1,108	63,836	4	57.61
Lloydminster‡	6,034	59,764	18	9.90
Lumsden	1,303	—	1	—
Maidstone	1,001	1,700	3	1.70
Maple Creek	2,470	2,369	4	0.96
Martensville	1,966	3,156	1	1.61

Table 14 (continued)

Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1985

Urban municipality	Population*	Property loss†	Number of fires	Per capita loss
Meadow Lake	3,857	$5,293	12	$1.37
Melfort	6,010	5,153	3	0.86
Melville	5,092	495,969	8	97.40
Moose Jaw	33,941	218,691	80	6.44
Moosomin	2,579	1,000	3	0.39
Nipawin	4,376	51,392	14	11.74
North Battleford	14,030	107,927	40	7.69
Outlook	1,976	12,665	4	6.41
Oxbow	1,191	—	1	—
Pilot Butte	1,255	5,000	1	3.98
Preeceville	1,243	—	1	—
Prince Albert	31,380	601,678	102	19.47
Radville	1,012	2,000	2	1.98
Regina	162,984	2,505,145	408	15.37
Rosetown	2,664	2,783	9	1.04
Rosthern	1,609	6,450	3	4.01
Saskatoon	154,210	1,090,808	429	7.07
Shaunavon	2,112	20,726	2	9.81
Shellbrook	1,228	431	3	0.35
Swift Current	14,747	390,534	41	26.48
Tisdale	3,107	38,265	5	12.32
Unity	2,408	26,141	8	10.86
Uranium City	2,748	500	1	0.18
Wadena	1,495	—	—	—
Wakaw	1,030	—	—	—
Warman	2,076	160	2	0.08
Watrous	1,830	6,435	5	3.52
Weyburn	9,523	149,591	29	15.71
Whitewood	1,003	12,862	1	12.82
Wilkie	1,501	35,200	5	23.45
Wynyard	2,147	8,118	8	3.78
Yorkton	15,339	596,232	7	38.86

* Source: 1985 Municipal Directory

† Based on reports of fire insurance company adjusters and fire chiefs.

‡ Includes only Saskatchewan portion of Lloydminster.

Table 15

Number of Fire Fatalities, by Age and Sex, Saskatchewan, 1985

	Total fatalities	Age groups						
		0-5	6-15	16-18	19-39	40-64	65 plus	Un-known
Total	**21**	**2**	**—**	**1**	**8**	**6**	**4**	**—**
Total Children	**3**	**2**	**—**	**1**	**—**	**—**	**—**	**—**
Male	2	1	—	1	—	—	—	—
Female	1	1	—	—	—	—	—	—
Total Adults	**18**	**—**	**—**	**—**	**8**	**6**	**4**	
Male	18	—	—	—	8	6	4	—
Female	—	—	—	—	—	—	—	—

Table 16

Number of Fire Injuries, by Age and Sex, Saskatchewan, 1985

	Total injuries	Age groups						
		0-5	6-15	16-18	19-39	40-64	65 plus	Un-known
Total	**76**	**7**	**5**	**8**	**35**	**16**	**5**	**—**
Total children	**20**	**7**	**5**	**8**	**—**	**—**	**—**	**—**
Male	8	3	2	3	—	—	—	—
Female	12	4	3	5	—	—	—	—
Total adults	**56**	**—**	**—**	**—**	**35**	**16**	**5**	**—**
Male	40	—	—	—	26	12	2	—
Female	16	—	—	—	9	4	3	—

Table 17

Fire Deaths and Injuries Due to Careless Use of Flammable Liquids, Saskatchewan, 1976 to 1985

Year	Total deaths	Deaths due to careless use of flammable liquids	Total injuries	Injuries due to careless use of flammable liquids
Ten-year average	**34**	**4**	**49**	**14**
1976	31	2	48	20
1977	33	12	29	12
1978	41	8	46	11
1979	46	1	39	11
1980	39	8	34	9
1981	32	2	65	10
1982	40	3	35	9
1983	30	0	46	21
1984	26	4	73	24
1985	21	3	76	17

Table 18

Fire Fatalities by Time of Day, Saskatchewan, 1985

Time of day	Total	Men	Women	Children
Total	**21**	**18**	—	**3**
12 a.m. - 6 a.m.	9	9	—	—
6 a.m. - 12 p.m.	5	3	—	2
12 p.m. - 6 p.m.	3	3	—	—
6 p.m. - 12 a.m.	4	3	—	1
Unknown	—	—	—	—

Table 19

Circumstances Contributing to Fire Casualties, Saskatchewan, 1985

Circumstances	Number of fatalities	Number of injuries
Condition of casualty at time of fire		
Total	**21**	**76**
Not applicable	—	26
Asleep at time of fire	7	10
Bedridden or other physical or mental handicap	—	2
Impaired by alcohol	8	5
Impaired by drugs	—	—
Under restraint or detention	—	—
Too young to act	—	4
Senile	—	—
Left unattended (children)	1	1
Unclassified or unknown	5	28
Action of casualty at time of fire		
Total	**21**	**76**
Not applicable	3	3
Injured while trying to escape	1	18
Overexertion, heart attack, etc.	—	—
Voluntarily entered or remained for rescue	1	5
Voluntarily entered or remained for firefighting	—	14
Voluntarily entered or remained to save property	1	5
Loss of judgement, panic	1	7
Received delayed warning	4	3
Unclassified or unknown	10	21
Ignition of clothing or other fabrics		
Total	**21**	**76**
Not applicable	12	40
Outer clothing	—	6
Sleepwear	—	—
Underclothing	—	—
Costume	—	—
Bedding and bed linen	—	3
Mattress or pillow	—	1
Upholstered furniture	1	7
Unclassified or unknown	8	19

Table 19 (continued)

Circumstances Contributing to Fire Casualties, Saskatchewan, 1985

Circumstances	Number of fatalities	Number of injuries
Type of fabric or material ignited		
Total	**21**	**76**
Not applicable	13	41
Cotton	—	1
Wool	—	—
Other natural fibre	—	—
Rayon (viscose)	—	—
Other synthetic fibre	—	4
Mixture of fibres	1	13
Rubber	—	—
Plastic foam	—	—
Unclassified or unknown	7	17
Cause of failure to escape		
Total	**21**	**76**
Not applicable	2	19
Trapped by rapid spread of fire/smoke through vertical openings, stairways or elevators	1	7
Trapped by rapid spread of fire/smoke through horizontal openings	3	3
High flame spread of combustible interior finish of walls, ceilings or floors	—	6
Building collapse	—	—
Falling debris	—	1
Explosion	1	18
Exit blocked or obstructed by fire	—	1
Outdoor fire (includes forest and brush)	—	3
Unclassified or unknown	14	18

Table 20

Investigation of Fires, (Suspicious Circumstances) by Disposition, Saskatchewan, 1985

Disposition	Number
Total Fire Crime Reports submitted	**754**
Suspect segments listed	759
Unfounded arson investigations	618
Persons suspected/concluded	33
Charges laid	23
Fires still under investigation	—
Investigations persons unknown	84
Undetermined	—
Investigations status unknown	—

Table 21

Investigation of Fires, Charges Laid, Saskatchewan, 1985

		Adult		Juvenile	
	Total	Male	Female	Male	Female
Total offences/charge laid	**23**	**18**	**2**	**1**	**2**
Cleared otherwise	7	4	—	1	2
Section 389(1)	8	8	—	—	—
Section 389(2)	2	2	—	—	—
Section 390	1	—	1	—	—
Section 392(1)	1	1	—	—	—
Section 306	—	—	—	—	—
Section 387	2	1	1	—	—
Section 388	—	—	—	—	—
Section 421	—	—	—	—	—
Others	2	2	—	—	—
Invalid	—	—	—	—	—

Note: The sections referred to above correspond to those within the *Criminal Code*.

Table 22

Investigation of Fires, Conclusion of Charges Laid, Saskatchewan, 1985

	Total	Adult		Juvenile	
		Male	Female	Male	Female
Total charges laid	**23**	**18**	**2**	**1**	**2**
Conclusion of charges					
Pending	10	8	2	—	—
Withdrawn	—	—	—	—	—
Stay of proceedings	—	—	—	—	—
Committed to mental institute	—	—	—	—	—
Convicted	6	6	—	—	—
Dismissed	1	—	—	1	—
Invalid	6	4	—	—	2

Table 23

Number of Fire Investigations, Fire Crimes Suspected, Saskatchewan, 1976-77 to 1985-86

Year	Number
1976-77	106
1977-78	89
1978-79	95
1979-80	89
1980-81	148
1981-82	224
1982-83	222
1983-84	234
1984-85	230
1985-86	754

Table 24

Plans and Specifications of New Buildings Reviewed, by Disposition, Saskatchewan, 1976-77 to 1985-86

Year	Total	Approved	Approved subject to alterations	Rejected or pending
1976-77	1,041	234	582	225
1977-78	1,592	495	601	496
1978-79	1,531	329	948	254
1979-80	1,439	547	654	238
1980-81	1,356	382	771	203
1981-82	1,254	333	747	174
1982-83	1,206	407	675	124
1983-84	1,406	505	754	147
1984-85	1,449	539	783	127
1985-86	1,199	401	698	100

Table 25

Inspections and Improvement Orders Issued, by Property Classification, Saskatchewan, 1985-86

Class of property	Inspections (calls)*	Improvement orders issued
Total	**3,268**	**698**
Assembly	**1,815**	**394**
Agriplexes	5	2
Amusement centres (arcades)	1	—
Ball parks	3	—
Bowling alleys	7	1
Change houses	—	—
Churches	384	37
Clubs	19	3
Court rooms	—	—
Day care centres	16	2
Funeral homes	—	—
Halls	382	91
Libraries	13	2
Licensed dining rooms	4	—
Museums	8	—
Pool rooms	3	—
Restaurants (cafes)	70	6
Rinks	415	94
Senior citizen centres	113	9
Schools (sheltered workshops, activity centres)	351	144
Swimming pools	11	—
Theatres	10	3
Undertaking premises	—	—
Institutional	**216**	**39**
Correction centres	6	1
Hospitals	116	28
Jails	—	—
Nursing homes	94	10
Residential	**631**	**189**
Apartments	123	39
Approved homes	50	1
Cabins	24	1
Convents, monasteries	3	1
Dormitories	16	3
Group homes	9	2
Houses	37	7
Hotels	282	121
Lodging houses	5	1
Mobile homes	15	2
Motels	67	11
Summer camp buildings	—	—

Table 25 (continued)

Inspections and Improvement Orders Issued, by Property Classification, Saskatchewan, 1985-86

Class of property	Inspections (calls)*	Improvement orders issued
Business	**92**	**2**
Banks (credit unions)	1	—
Barber and hairdressing shops	—	—
Clinics (medical and veterinary)	4	—
Health spas	—	—
Laundromats and drycleaners	—	—
Offices	87	2
Radio stations	—	—
Mercantile	**22**	**3**
Car washes	—	—
Department stores	—	—
Exhibition halls	—	—
Shops	2	1
Stores	14	2
Supermarkets	6	—
Industrial	**492**	**71**
Above and underground tanks	44	18
Aircraft hangers	1	—
Autobody shops	5	1
Bakeries	—	—
Bulk oil plants (propane)	212	39
Cold storage plants	—	—
Concrete plants	2	—
Creameries and dairies	—	—
Factories	12	—
Fertilizer buildings	2	—
Fire stations	53	—
Hatcheries	—	—
Laboratories	1	—
Lumber yards	3	—
Machine shops (metal, welding)	3	—
Marinas	1	—
Meat packers	—	—
Mills	—	—
Oil field supplies	3	—
Plumbing and heating shops	1	—
Power houses	1	—
Printing shops	—	—
Pump houses	7	—
Repair garages (implements)	46	6
Service stations	49	5
Storage garages and rooms	4	1
Upholstery shops	—	—
Warehouses (storage sheds)	31	1
Water treatment plants	6	—
Well drilling	—	—
Woodworking factories (shops)	—	—
Workshops	5	—

* Includes 947 special inspections and 401 re-inspections.

Table 26

Inspections and Improvement Orders Issued, Saskatchewan, 1976-77 to 1985-86

Year	Inspections (calls)	Improvement orders issued
1976-77	8,619	1,015
1977-78	3,987	487
1978-79	5,824	764
1979-80	5,285	711
1980-81	4,076	626
1981-82	3,603	650
1982-83	6,028	907
1983-84	5,884	757
1984-85	3,815	735
1985-86	3,268	698

Table 27

Inspection by Property Classification, Saskatchewan, 1976-77 to 1985-86

Year	Total*	Residential buildings	Commercial property	Institutional and assembly buildings		Manufacturing establishments	Other bldgs
1976-77	8,619	959	4,221	2,971		53	415
1977-78	3,987	458	1,821	1,521		9	178
1978-79	5,824	574	2,856	2,016		44	334
1979-80	5,285	529	2,485	2,004		23	244
1980-81	4,076	409	1,991	1,554		14	188
1981-82	3,603	450	1,607	1,349		13	184
1982-83	6,028	681	2,845	2,137		29	336
		Assembly	Inst'nl	Residential	Bus	Mercantile	Industrial
1983-84	5,884	2,056	176	654	822	627	1,549
1984-85	3,815	1,585	163	685	307	248	827
1985-86	3,268	1,815	216	631	92	22	492

* Includes special inspections and re-inspections to ascertain compliance with improvement orders.

Table 28

Improvement Orders Issued, by Property Classification, Saskatchewan, 1976-77 to 1985-86

Year	Total *	Residential buildings	Commercial property	Institutional and assembly buildings	Manufacturing establishments	Other bldgs
1976-77	1,015	185	207	570	2	51
1977-78	487	78	80	312	1	16
1978-79	764	133	117	461	1	52
1979-80	711	117	118	447	1	28
1980-81	626	115	132	360	—	19
1981-82	650	144	120	353	1	32
1982-83	907	246	126	483	4	48
		Assembly	Inst'nl	Residential	Bus	Mercantile	Industrial
1983-84	757	403	38	157	6	5	148
1984-85	735	379	43	222	10	2	79
1985-86	698	394	39	189	2	3	71

* Includes special inspections and re-inspections to ascertain compliance with improvement orders.

Table 29

Oil Burner Licences and Permits Issued under *The Fire Prevention Act*, Saskatchewan, 1976-77 to 1985-86

Type of licence or permit	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Total oil burner licences	**171**	**163**	**121**	**119**	**180**	**129**	**109**	**94**	**88**	**108**
Wholesalers' or manufacturers' (annual)	11	11	10	11	11	12	11	11	12	9
Installers' (annual)	81	56	45	49	51	42	41	34	27	25
Installers' (quinquennial)	79	96	66	59	118	75	57	49	49	74
Total oil burner permits (annual)	**226**	**273**	**203**	**208**	**166**	**106**	**71**	**16**	**10**	**3**

Note: The number of licensed oil burner installers in Saskatchewan in 1985-86 was 335.

Table 30

Selected Activities in Fire Prevention Education, Saskatchewan, 1985-86

Selected activities	Number of meetings	Attendance
Public meetings	17	445
School lectures	110	11,405
Other lectures and demonstrations	53	1,468
Film showings	135	8,449
Fire department meetings	46	429
Municipal council conferences	9	59
Meetings with school boards	10	43
Meetings with hospital boards	14	114
Meetings with fire chiefs	28	28
Court cases	7	—
School fire drills	18	1,501
Building/design consultants	79	189

Note: Attendance figures are not recorded for all activities.

Table 31

Selected Activities in Fire Prevention, Saskatchewan, 1976-77 to 1985-86

Activity	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Public meeting	6	6	10	11	7	4	4	21	2	17
School lecturers	68	81	39	117	80	46	200	160	135	110
Other lectures and demonstrations	25	5	8	46	11	12	3	33	55	53
Film showings*	65	82	65	132	80	74	260	195	162	135
Fire department conferences	46	15	17	31	33	18	30	39	58	46
Meetings with school boards	7	5	13	19	4	10	8	17	12	10
Meetings with hospital board	1	—	5	—	5	1	7	3	6	14
Meetings with fire chief, etc.	106	72	232	135	213	105	97	19	13	28
Hospital emergency training	3	1	2	4	5	—	3	—	1	—

* These figures refer only to film showings sponsored by the Fire Commissioner's Unit.
Note: Attendance figures are not recorded for all activities.

Table 32

Volunteer Firefighters' Training Schools, Saskatchewan, 1985-86

Location	Period
Prelate	April 1, 2, 3, 1985
Burstall	April 1, 2, 3
Hutterite Bench Colony-Shaunavon	April 9, 10, 11
Tompkins	April 9, 10, 11
Mankota	April 15, 16, 17
Bengough	April 22, 23, 24
Wood Mountain	April 22, 23, 24
Zealandia	April 29, 30, and May 1
Perdue	April 29, 30, and May 1
Kindersley	May 6, 7, 8
Luseland	May 6, 7, 8
Macklin	May 21, 22, 23
Dodsland	May 21, 22, 23
Watrous	May 27, 28, 29
Conquest	May 27, 28, 29
Belle Plaine	June 3, 4, 5
Wakaw	June 3, 4, 5
Buena Vista	June 17, 18, 19
Key Lake	June 17, 18, 19
Key Lake	June 24, 25, 26
Hepburn	June 24, 25, 26
Leask	July 2, 3, 4
Duck Lake	July 2, 3, 4
Hafford	July 8, 9, 10
Battleford	July 8, 9, 10
Paradise Hill	July 15, 16, 17
Loon Lake	July 15, 16, 17
Canwood	July 22, 23, 24
Big River	July 22, 23, 24
Cumberland House	July 29, 30, 31
Spalding	August 6, 7, 8
Weyakwin	August 6, 7, 8
Quill Lake	August 12, 13, 14
Kelvington	August 12, 13, 14
Wynyard	August 19, 20, 21
Mistatim	August 19, 20, 21
Churchbridge	August 26, 27, 28
Esterhazy	August 26, 27, 28
Nokomis	September 3, 4, 5
Fort Qu'Appelle	September 9, 10, 11
Grenfell	September 9, 10, 11
Odessa	September 16, 17, 18
Storthoaks	September 23, 25, 26
Maryfield	September 23, 25, 26

Table 32 (continued)

Volunteer Firefighters' Training Schools, Saskatchewan, 1985-1986

Location	Period
Manor	September 30 and October 1, 2
Stoughton	September 30 and October 1, 2
Wilcox	October 7, 8, 9
Macoun	October 7, 8, 9
Radville	October 15, 16, 17
Maidstone	October 15, 16, 17
Pangman	October 21, 22, 23
Lang	October 28, 29, 30
Sedley	October 28, 29, 30
Turnor Lake	December 11, 12
Cypress Hills	February 11, 12, 1986

Table 33

Volunteer Firefighters' Training Schools, Saskatchewan, 1976-77 to 1985-86

Year	Number of training schools conducted	Number of persons registered
1976-77	30	889
1977-78	31	2,457
1978-79	28	2,564
1979-80	51	3,319
1980-81	49	3,230
1981-82	27	2,039
1982-83	33	2,046
1983-84	31	2,246
1984-85	47	1,198
1985-86	55	930

Oil Burners

The Fire Prevention Act and regulations thereunder require that distributors and wholesalers of oil burners obtain an annual licence and that firms or persons installing and servicing oil-burning equipment take out an annual or quinquennial license as authorized by the Fire Commissioner for such work. The number of licences issued during the fiscal year ended March 31, 1986, and during each of the previous nine years is shown in Table 29. The number of oil burner installation permits issued, as required by the regulations is also shown in Table 29. During the fiscal year 1985-86, 75 oil burner inspections were made.